

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452982

Luminaire Tested: **GALN-SA4A-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12515 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

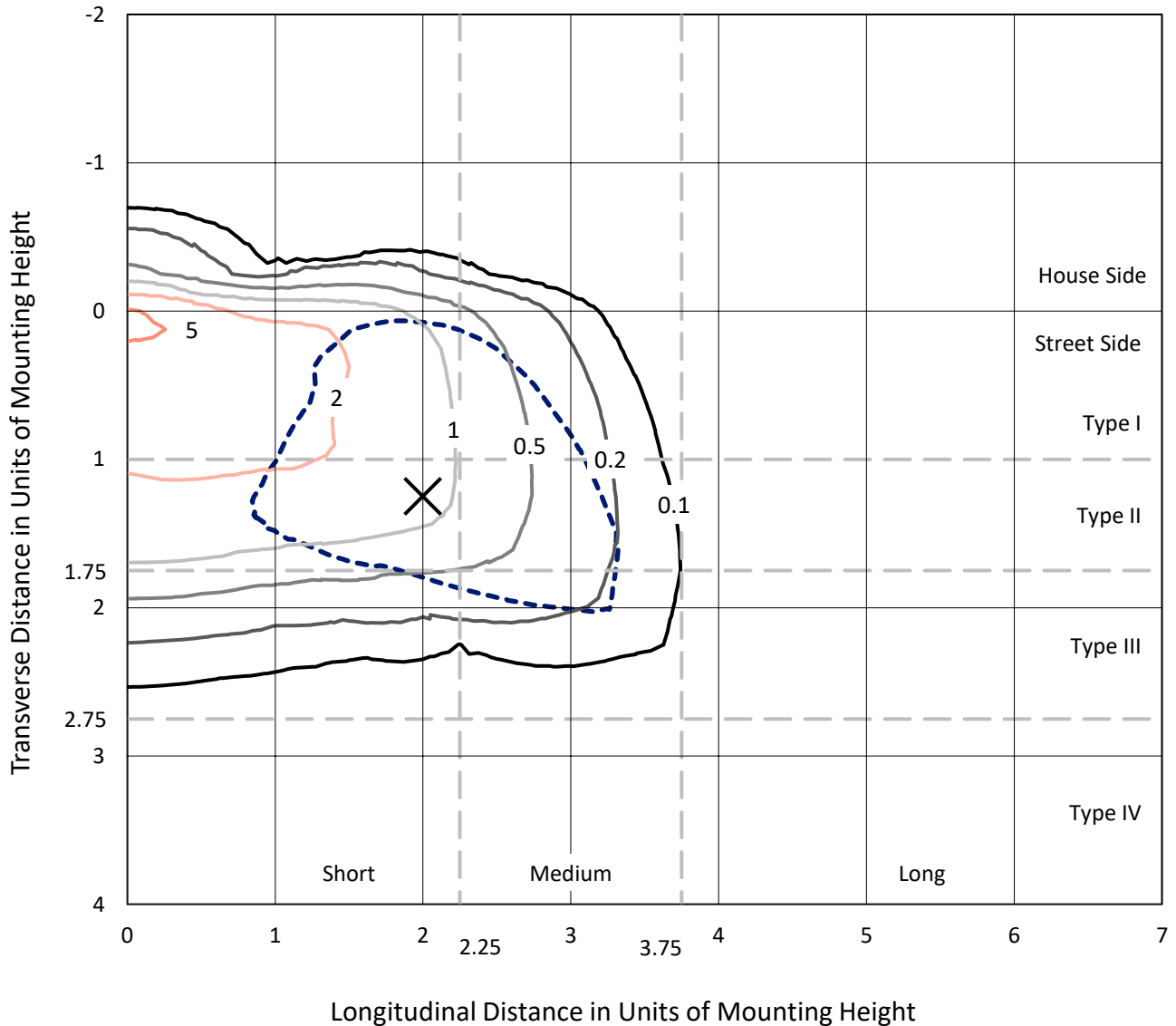
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452982
 CATALOG NUMBER: GALN-SA4A-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

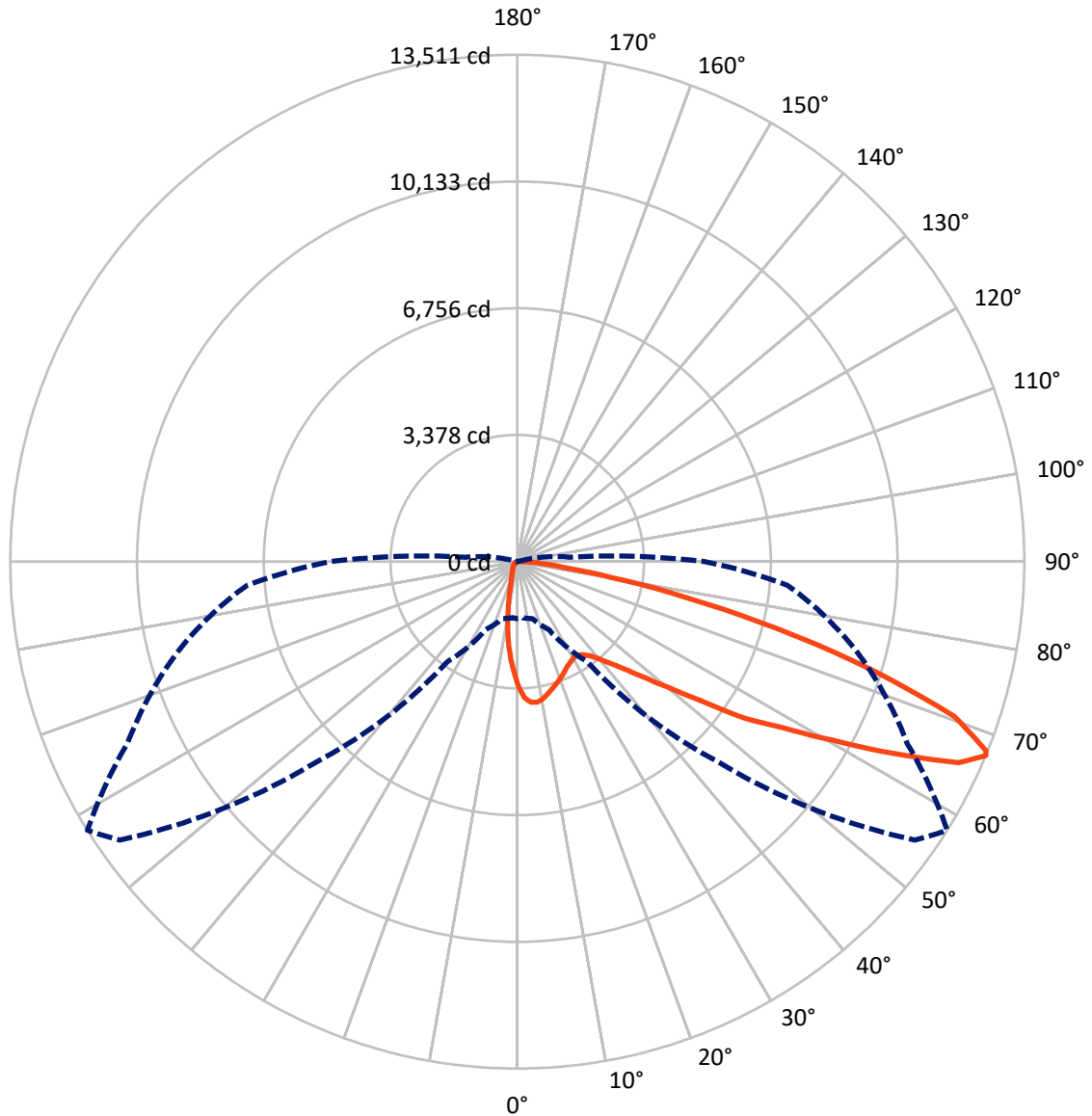
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P452982
CATALOG NUMBER: GALN-SA4A-727-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P452982

CATALOG NUMBER: GALN-SA4A-727-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.2	0.0	903.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11611.9	0.0	11611.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	12515.0	0.0	12515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	2.2
10°-20°	581.4	4.6
20°-30°	787.9	6.3
30°-40°	1092.8	8.7
40°-50°	1742.8	13.9
50°-60°	3012.6	24.1
60°-70°	3441.4	27.5
70°-80°	1434.7	11.5
80°-90°	152.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12515.0	100.0
0°-180°	12515.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452982

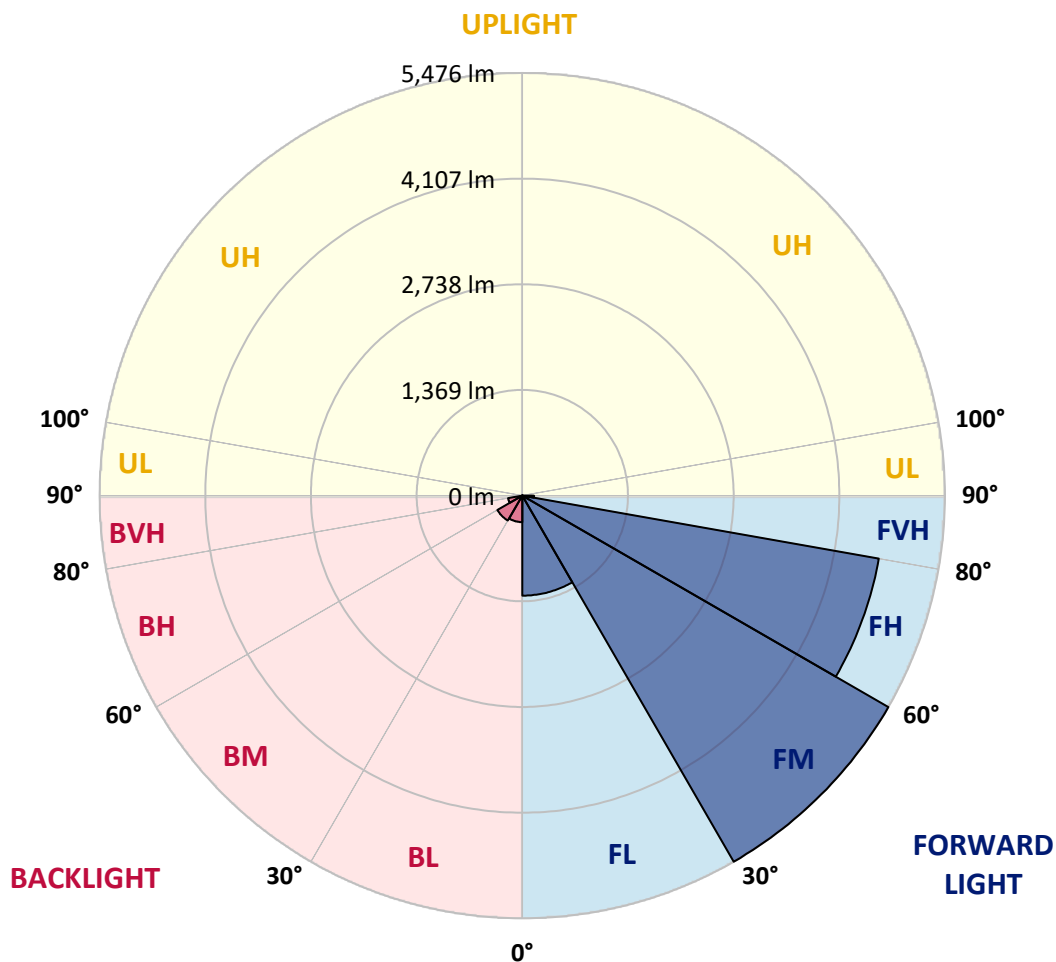
CATALOG NUMBER: GALN-SA4A-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.6	10.4			
FM (30°-60°)	5475.8	43.8			
FH (60°-80°)	4689.4	37.5			G2/5000
FVH (80°-90°)	151.0	1.2			G2/225
BL (0°-30°)	342.9	2.7	B1/500		
BM (30°-60°)	372.4	3.0	B1/1000		
BH (60°-80°)	186.7	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P452982

CATALOG NUMBER: GALN-SA4A-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6
2.5°	3850.3	3856.2	3834.4	3816.9	3771.7	3723.2	3658.8	3624.5	3566.0	3464.8	3352.7
5°	3940.7	3948.2	3944.8	3940.7	3923.1	3876.3	3794.3	3764.2	3678.1	3513.3	3310.9
7.5°	3739.9	3767.5	3770.9	3803.5	3834.4	3838.6	3807.7	3785.1	3705.7	3512.5	3236.5
10°	3474.0	3492.4	3519.2	3556.8	3631.2	3693.1	3723.2	3719.9	3673.9	3486.5	3149.5
12.5°	3205.5	3215.6	3256.6	3321.0	3412.1	3517.5	3597.8	3613.7	3614.5	3455.6	3076.8
15°	2974.7	2970.5	3002.3	3076.8	3204.7	3336.8	3480.7	3505.8	3545.9	3425.5	3009.0
17.5°	2777.4	2799.1	2804.1	2886.1	3004.0	3175.4	3358.6	3402.9	3483.2	3399.6	2953.0
20°	2655.3	2667.0	2677.8	2723.8	2830.0	3010.7	3244.0	3305.1	3424.7	3376.2	2890.3
22.5°	2619.3	2626.8	2617.6	2631.8	2707.1	2867.7	3119.4	3200.5	3368.6	3354.4	2839.2
25°	2646.9	2654.4	2632.7	2616.0	2641.9	2751.4	2999.0	3097.7	3323.5	3350.2	2800.8
27.5°	2713.8	2728.0	2697.9	2667.8	2652.8	2688.7	2904.5	3019.1	3292.5	3370.3	2783.2
30°	2818.3	2826.7	2804.1	2767.3	2733.0	2697.1	2855.1	2964.7	3284.2	3417.1	2781.5
32.5°	2932.1	2949.6	2937.1	2912.8	2868.5	2783.2	2869.4	2966.4	3304.2	3484.9	2802.4
35°	3072.6	3092.6	3104.4	3099.3	3042.5	2936.3	2959.7	3041.6	3357.8	3609.5	2859.3
37.5°	3210.6	3228.1	3294.2	3316.8	3266.6	3166.2	3135.3	3189.7	3475.7	3772.6	2962.2
40°	3368.6	3392.0	3484.9	3571.0	3546.8	3441.4	3384.5	3429.7	3656.3	4018.4	3157.0
42.5°	3520.0	3561.8	3703.1	3855.4	3877.9	3760.0	3722.4	3737.4	3923.9	4372.2	3428.8
45°	3734.9	3774.2	3956.5	4163.1	4269.3	4177.3	4138.9	4136.4	4291.1	4869.8	3869.6
47.5°	4045.2	4080.3	4295.2	4499.3	4688.3	4700.9	4628.1	4653.2	4752.7	5451.9	4409.8
50°	4425.7	4508.5	4649.8	4862.3	5114.8	5318.9	5341.5	5308.0	5393.3	6125.9	5058.8
52.5°	4978.5	5010.3	5139.9	5314.7	5610.8	5957.0	6225.4	6179.4	6152.7	6768.2	5714.5
55°	5390.8	5433.5	5635.0	5875.0	6309.1	6765.7	7347.8	7363.6	7025.8	7385.4	6355.9
57.5°	5266.2	5331.4	5636.7	6119.2	7073.4	7908.1	8341.3	8352.2	7833.6	7985.0	7080.1
60°	4626.4	4657.4	5094.8	5738.7	7138.7	9145.8	9750.4	9662.6	8655.7	8655.7	7719.9
62.5°	3280.8	3329.3	3683.9	4631.4	6447.1	9575.7	11438.1	11256.6	9788.1	9297.2	8101.3
65°	2096.6	2049.8	2284.8	2923.7	4802.9	8940.9	12907.5	12918.4	10853.5	9553.9	7893.0
67°	1518.7	1500.3	1568.1	1998.8	3256.6	7515.8	12938.4	13511.3	11465.7	9391.7	7227.3
67.5°	1389.1	1403.3	1452.7	1803.1	2958.8	6839.3	12797.9	13476.2	11603.7	9293.8	6986.5
70°	1052.9	1028.7	1082.2	1275.4	1773.8	4314.5	11009.1	12359.7	11432.3	8322.9	5582.3
72.5°	774.4	771.9	846.3	1042.9	1365.7	2298.2	8264.3	9910.2	9339.8	6337.5	3515.0
75°	522.7	546.1	664.9	871.4	1237.7	1490.3	5634.2	7189.7	6483.9	3598.6	1436.8
77.5°	297.7	299.4	428.2	700.0	1111.4	1199.3	3338.5	4580.4	3432.2	1196.7	426.5
80°	128.8	141.3	212.4	508.5	921.6	1062.1	1914.3	2517.3	1388.3	253.4	138.0
82.5°	47.7	56.0	93.7	312.8	672.4	874.8	1156.6	1201.8	470.8	89.5	86.1
85°	0.0	1.7	34.3	146.4	350.4	390.6	772.7	712.5	208.2	42.7	56.0
87.5°	0.0	0.0	0.0	15.1	46.0	145.5	240.0	267.6	50.2	15.1	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452982

CATALOG NUMBER: GALN-SA4A-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6	3317.6
2.5°	3292.5	3238.2	3101.8	2965.5	2864.3	2779.9	2652.8	2583.3	2546.5	2492.2	2495.5
5°	3209.7	3099.3	2859.3	2610.9	2410.2	2214.5	1980.4	1885.9	1806.4	1761.3	1731.1
7.5°	3086.8	2923.7	2568.3	2237.1	1928.5	1586.5	1329.7	1158.3	1042.9	1000.2	959.2
10°	2952.1	2735.5	2273.1	1813.9	1385.8	1032.8	815.4	658.2	602.1	550.3	555.3
12.5°	2827.5	2564.1	2002.1	1431.7	970.9	656.5	511.8	447.4	429.0	423.2	423.2
15°	2725.5	2400.2	1711.1	1076.3	665.7	471.7	409.8	392.2	385.5	383.9	383.9
17.5°	2616.8	2244.6	1448.5	795.3	484.2	394.7	373.8	362.1	359.6	357.9	357.9
20°	2519.8	2088.2	1199.3	592.1	391.4	355.4	342.0	334.5	332.0	330.3	331.2
22.5°	2427.8	1949.4	965.1	447.4	344.6	323.6	310.3	302.7	297.7	293.5	294.4
25°	2345.8	1815.6	776.1	366.3	310.3	291.9	278.5	267.6	256.7	251.7	250.9
27.5°	2288.1	1698.5	604.6	313.6	279.3	259.3	242.5	229.1	214.9	207.4	205.7
30°	2240.5	1579.8	478.4	276.8	248.4	229.1	208.2	189.0	174.0	166.4	163.1
32.5°	2209.5	1466.9	377.2	246.7	222.5	199.0	175.6	156.4	139.7	132.1	130.5
35°	2204.5	1372.4	308.6	221.6	199.0	174.0	149.7	128.8	114.6	107.0	105.4
37.5°	2240.5	1299.6	258.4	201.5	179.8	152.2	125.4	106.2	93.7	87.8	87.0
40°	2336.6	1253.6	224.1	184.8	162.2	132.1	107.0	90.3	77.8	71.9	71.9
42.5°	2519.8	1255.3	201.5	168.9	144.7	112.9	91.2	75.3	64.4	59.4	57.7
45°	2805.8	1312.2	182.3	153.0	128.0	97.8	77.8	61.9	51.0	46.8	46.8
47.5°	3188.8	1425.1	165.6	137.2	112.9	83.6	66.1	50.2	41.0	36.8	36.8
50°	3689.8	1606.5	151.4	123.8	100.4	71.9	53.5	41.0	31.8	28.4	27.6
52.5°	4213.3	1830.7	134.6	112.1	86.1	61.1	43.5	31.8	24.3	21.7	20.9
55°	4791.2	2049.8	118.8	100.4	70.2	51.0	34.3	25.1	17.6	15.1	15.1
57.5°	5374.1	2264.7	99.5	83.6	55.2	37.6	26.8	18.4	11.7	9.2	9.2
60°	5867.5	2334.1	84.5	67.7	41.8	26.8	19.2	11.7	6.7	4.2	4.2
62.5°	5935.2	2100.0	71.1	51.9	30.1	18.4	10.0	6.7	2.5	1.7	1.7
65°	5567.3	1706.1	59.4	39.3	20.1	9.2	4.2	2.5	0.8	0.0	0.0
67°	4988.5	1383.2	48.5	29.3	14.2	5.9	2.5	0.8	0.0	0.0	0.0
67.5°	4840.5	1318.8	46.8	27.6	12.5	5.0	1.7	0.8	0.0	0.0	0.0
70°	3798.5	987.7	33.5	16.7	7.5	3.3	0.0	0.0	0.0	0.0	0.0
72.5°	2360.9	558.6	24.3	10.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0
75°	892.3	195.7	16.7	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	277.7	74.4	10.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.7	28.4	6.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.7	11.7	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)